

DATE: January 24, 1984
TO: File
FROM: Paul Hess
SUBJECT: Indiana/R05-8307-04-085
Gary/Gary Development, Inc. - On-site Inspection

Attached is an on-site inspection report (Form 2070-13), a site sketch, a partial topographic map, an aerial reproduction, and ground level photos. The above items were produced as a result of the on-site inspection conducted by FIT on December 27 and 28, 1983. During this inspection, the FIT collected three (3) sets of low concentration water samples. Two (2) of these sets were obtained from on-site monitoring wells (No. 1 and 2), and the third set was taken from the west side drainage ditch (see site sketch).

The Gary Development, Inc. facility is an active sanitary landfill that is operating under Indiana State Board of Health Permit Number 45-2. This facility was constructed in an abandoned, water filled, sand quarry that lies adjacent to the Grand Calumet River in northeastern Indiana. The current operator of this site obtained a sanitary landfill construction permit, from the state agency that required the dewatering of this quarry, the lining of the sidewalls with clay, the emplacement of two clay barrier walls (west and south), the installation of a leachate collection system, and the emplacement of four perimeter monitoring wells. The construction was completed and passed state inspection before the operator began accepting solid waste for disposal in September, 1974. It should be noted that after the operating permit was issued in 1975, the State Board of Health began questioning the adequacy of the aforementioned systems at this facility.

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The construction of the above systems at this site has created an artificially induced low water table under this site. The water table is depressed about thirty (30) feet. This depression may be causing the surrounding groundwater to seep into this site through the clay liner. This possible seepage along with leachate from disposed waste and precipitation runoff are collected and discharged from the site. Therefore, the leachate collection system maintains this depressed water table. The possibility that hazardous waste deposited at this site might migrate off site via the natural groundwater flow is remote. However, once the facility is closed and the on-site water table is allowed to recover from this negative influence, the question of hazardous waste migration via the groundwater route will have to be reassessed. Therefore, the adequacy of this site's clay liner will have to be evaluated before the site is closed.

The source or sources of any contaminated groundwater found at or near this site becomes a complex problem because there are twelve (12) alleged or known hazardous waste sites within a two (2) mile radius. Five (5) of these sites border the perimeter of this landfill. These sites are Vulcan Material Metal Division surface impoundment (west perimeter), City Service refinery tank bottom dump (northwest perimeter), Conservation Chemical surface impoundments (northeast perimeter), Gary Airport Dump (east perimeter), Grand Calumet River (south perimeter), Cliff Rolland Dump (northeast), 9th Avenue Dump (south), Midco II (south), Midco II (northeast), unnamed dump (adjacent to south side of river), and the City of Gary Landfill (south). See partial topographic map for detailed location.

The liquid waste from the leachate collection system was discharged to the Grand Calumet River for a number of years without an NPDES permit. This practice was stopped by the operator as a result of a 1983 consent decree settlement with the state. Since that settlement,

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the operator has been mixing the liquid leachate with lime and fly ash to form a rock like cover material. The lime mix forms a hydrated calcium carbonate that traps the leachate impurities.

Gary Développement has petitioned for and received approval from the State Board of Health to accept a number of industrial wastes. Some of these industrial wastes are considered hazardous waste. These industrial wastes contain varying amounts of hazardous compounds. Some of these hazardous compound types are heavy metals, asbestos, inorganic acids and bases, and oils. A list of the waste types and waste quantities is documented in the consent decree settlement between the two parties.

The subject facility is one of three (3) state permitted sanitary landfills in northern Indiana. There are a large number of unpermitted landfills and dumps in this area that do not meet minimum state health requirements. Four (4) of these unpermitted sites lie within two (2) miles of subject facility. They are the Wheeler Landfill, the Samocki Brothers Dump, the Cliff Rolland Dump, and the City of Gary Municipal Dump. The latter dump site meets the fewest minimum state health requirements. This city dump is 100 acres of raw refuse that is reportedly burned three (3) times each year. This site lies in a sand quarry that is neither lined nor covered. The operator of the Gary Development facility complained that because of state agency impropriety, his competitors enjoy a distinct monetary advantage that is slowly forcing him out of business.

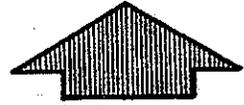
A memo summarizing the results of the water samples collected at this site is forthcoming.

Note: Gary Development, Inc. has requested a copy of the report.

PH:4M

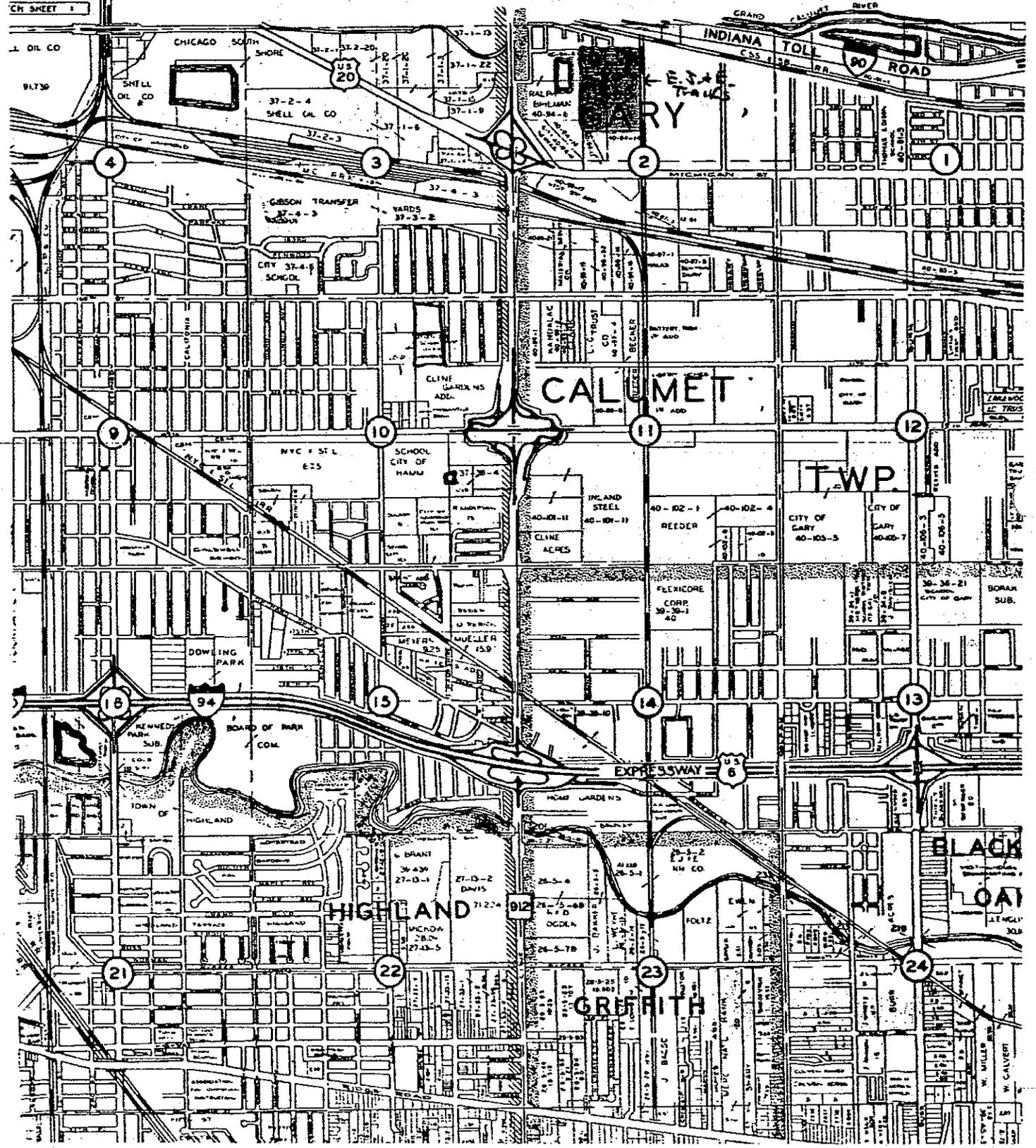
LAKE COUNTY IND.

NORTH



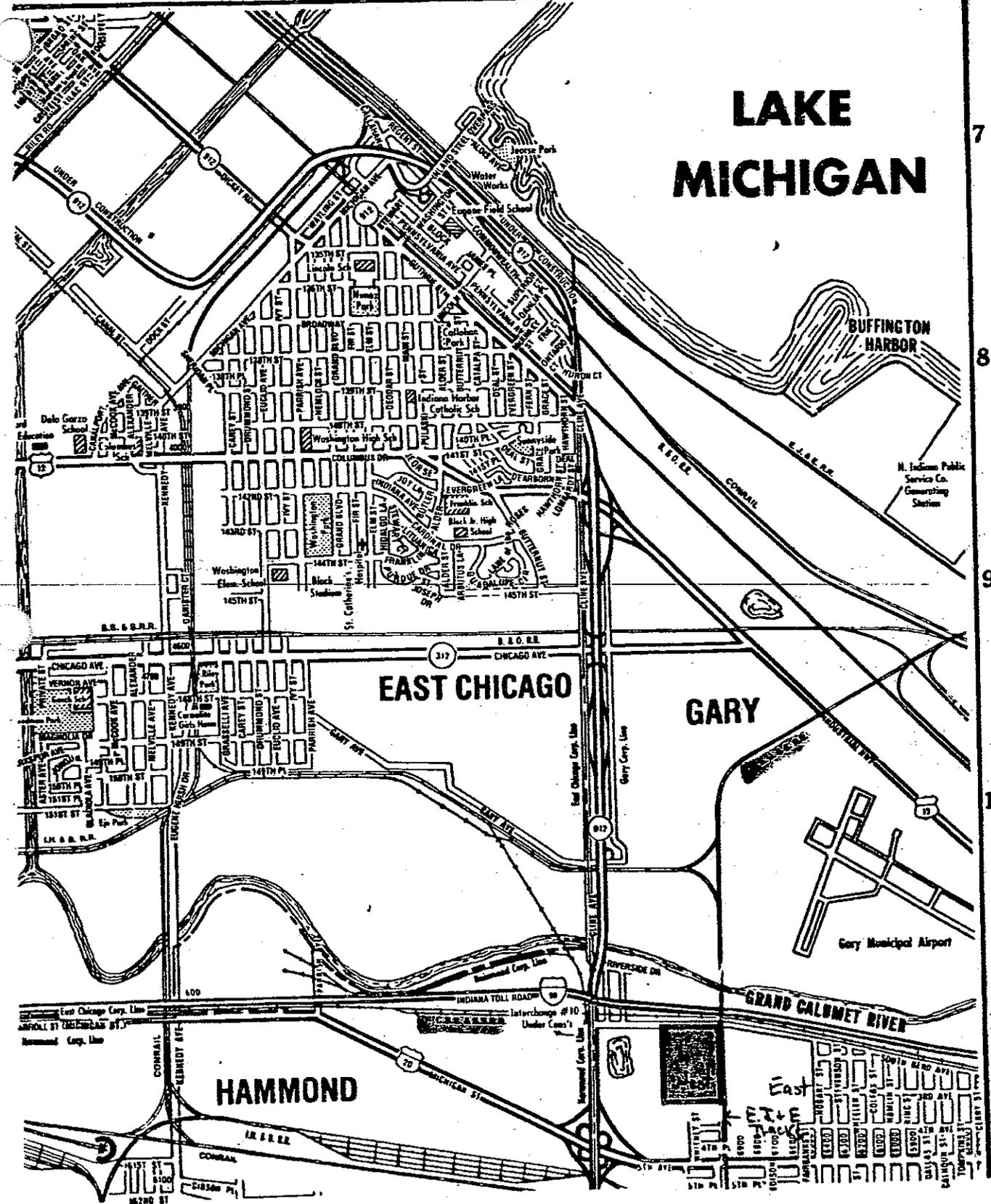
6N.-R. 9, 10W.

OF 2ND P.M.



E F H J

LAKE MICHIGAN



BUFFINGTON HARBOR

EAST CHICAGO

GARY

HAMMOND

GRAND CALUMET RIVER

Gary Municipal Airport

East

 POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT		I. IDENTIFICATION	
		D1 STATE	D2 SITE NUMBER
PART 1 - SITE LOCATION AND INSPECTION INFORMATION		IN	D077005916
II. SITE NAME AND LOCATION			
D1 SITE NAME (Legal, common, or descriptive name of site)		D2 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER	
GARY DEVELOPMENT LANDFILL		479 N. CLINE (CLINE & GARY AVES)	
D3 CITY	D4 STATE	D5 ZIP CODE	D6 COUNTY
GARY	IN	46406	LAKE
D7 COUNTY CODE	D8 CONG DIST		
89	1		
D9 COORDINATES		D10 TYPE OF OWNERSHIP (Check one)	
LATITUDE 41° 36' 15.0"	LONGITUDE 087° 25' 30.0"	<input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN	
III. INSPECTION INFORMATION			
D1 DATE OF INSPECTION	D2 SITE STATUS	D3 YEARS OF OPERATION	
12/27/83 MONTH DAY YEAR	<input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	SEPT 1974 BEGINNING YEAR ENDING YEAR UNKNOWN	
D4 AGENCY PERFORMING INSPECTION (Check all that apply)			
<input type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR <u>FIT (EYE, INC.)</u> <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <small>(Name of firm)</small>			
<input type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER <small>(Name of firm)</small>			
D5 CHIEF INSPECTOR	D6 TITLE	D7 ORGANIZATION	D8 TELEPHONE NO.
PAUL HESS	TEAM LEADER	EYE, INC.	(312) 663-9415
D9 OTHER INSPECTORS	D10 TITLE	D11 ORGANIZATION	D12 TELEPHONE NO.
JOHN ANGELO	TEAM MEMBER	"	() "
DAN COZZA	" "	"	() "
ANN SAUSE	" "	"	() "
			()
			()
D13 SITE REPRESENTATIVES INTERVIEWED	D14 TITLE	D15 ADDRESS	D16 TELEPHONE NO.
LAWRENCE HAGEN	V.P. - GEN. MGR.	479 N. CLINE AVE.	(29) 9447858
			()
			()
			()
			()
			()
			()
D17 ACCESS GAINED BY (Check one)	D18 TIME OF INSPECTION	D19 WEATHER CONDITIONS	
<input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	1:10 PM	OVERCAST, LIGHT WIND, 21°F, SNOW COVER	
IV. INFORMATION AVAILABLE FROM			
D01 CONTACT	D02 OF (Agency/Organization)		D03 TELEPHONE NO.
TOR STALL	OFFICE OF SUPERFUND, U.S. EPA		(312) 886-0393
D04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	D05 AGENCY	D06 ORGANIZATION	D07 TELEPHONE NO.
PAUL HESS	FIT	EYE, INC.	(312) 663-9415
			D08 DATE
			1/6/84 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER 0077005916

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

Unknown

01 K. DAMAGE TO FAUNA 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

Unknown

01 L. CONTAMINATION OF FOOD CHAIN 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

Unknown

01 M. UNSTABLE CONTAINMENT OF WASTES 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
(Spills/Runoff/Standing liquids, Leaking drums)
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Unknown

01 N. DAMAGE TO OFFSITE PROPERTY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

Unknown

01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

Unknown

01 P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE: 3/9/76) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

ISBH WITNESSED DISCHARGE OF LEACHATE COLLECTING SYSTEM TO THE GRAND CALUMET RIVER. OPERATOR DID NOT HAVE NPDES PERMIT FOR THIS WASTE WATER DISCHARGE.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

CONTAMINATED GROUND AND SURFACE WATER FROM A NUMBER OF HAZARDOUS WASTE SITE THAT SURROUND THIS SITE MAY BE DISCHARGING TO THIS SITE.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 1,530

IV. COMMENTS

SITE HAS LEACHATE COLLECTIVE SYSTEM UNDER WASTE AND WALLS OF SITE ARE LINED WITH CLAY. HOWEVER, SITE WILL NOT CREATE POTENTIAL FOR OFF-SITE MIGRATION UNTIL SITE IS CLOSED.

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)

FIT SITE INSPECTION AND ISBH FILES.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE IN	02 SITE NUMBER D077005916

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 0-50
02 OBSERVED (DATE: 5/12/78) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION: 9/17/76
Water table is 2 feet down in unconfined conditions. Groundwater discharges to Grand Calumet River. 6 monitoring wells have been installed and sampled. The following parameters exceeded federal drinking water standards: Chromium (well #s 1, 2, 5, 6), Lead (well #s 1, 5, 6), Cadmium (well #s 1-3), arsenic (well 5), and fluoride (wells 2, 4, 5). Barium, Selenium, silver, mercury, iron and copper were found at levels well below the federal standards.

01 B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 0-5000
02 OBSERVED (DATE: 8/26/76) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION: 5/12/76, 7/4/78
Arsenic has been detected to be at significant levels at 3 onsite ditches, a pool and in the discharge to the Grand Calumet River. Significant levels of fluoride have been found in a ditch and pool. Chromium levels above federal standards have been found in the outfall. Lead showed up in sample of ditch. Leachate from site has been directly discharged to Grand Calumet. Contaminants in groundwater could be discharged into river.

01 C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: 0-50
02 OBSERVED (DATE: 5/8/78) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION:
A human waste type odor + a strong septic odor are both alleged to have come from the site. On 6/20/76 dust from waste generated by US Reduction caused "problems" according to the ISBH inspector. Asbestos could have become airborne before or as it was being buried.

01 D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: 0-50
02 OBSERVED (DATE: 10/29/77) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION: 3/15/78
A fire was observed on the site. slope ended in a cliff with fire at top of cliff and could not be easily reached.
There has also been an underground fire in several areas.

01 E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: 0-50
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION:
The site is enclosed. Workers could come in direct contact with wastes.
See item H below.

01 F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 62
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION:
Soil on the site could be contaminated due to mineral adsorption by the "sandy" soil and saturation of oily wastes disposed of at the site and leaching of wastes due to improper soil cover.

01 G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 0-50
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION:
The area receives its drinking water from Lake Michigan. The groundwater by the site flows into the Grand Calumet River. No where near the site does the river enter Lake Michigan, therefore, there is little chance of drinking water becoming contaminated.

01 H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: 0-500
02 OBSERVED (DATE: 3/29/77) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION: 3/15/78
Workers have been seen scavenging on site and may come into contact with the sewage sludge containing viruses, or asbestos particles suspended by site activities (heavy equipment use, etc.)

01 I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: 0-5000
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION:
Population can be exposed by contaminated river water due to fishing and other potential recreational activities by the people who live in the area.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS.

I. IDENTIFICATION
01 STATE IN 02 SITE NUMBER D077005916

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 1,530 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
GROUNDWATER CONTAMINATION IS ALLEGED BY ISBH MONITORING WELL TESTS. SITE IS SURROUNDED BY OTHER HAZARDOUS WASTE SITES. SURROUNDING GROUND WATER FLOWS TO SITE AND IS PUMPED OUT OF PIT. SITE HAS ARTIFICIALLY LOW WATER TABLE. THERE ARE FEW PRIVATE WELLS IN 3 MILE AREA.

01 B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____ 02 OBSERVED (DATE: 3/9/76) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
ISBH HAS WITNESSED LEACHATE DISCHARGE FROM PIT SUMP TO GRAND CALUMET RIVER ON A NUMBER OF OCCASIONS.

01 C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____ 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
UNKNOWN

01 D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____ 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
UNKNOWN

01 E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: 0-50 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
LANDFILL HAS WORKMEN ON SITE 24 HOURS PER DAY FOR MOST OF THE YEAR. HOWEVER, OPERATOR REPORTED BRAKE-INS TO SITE BUILDING SEVERAL TIMES EACH YEAR.

01 F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: < 20 ACRES (ACROSS) 02 OBSERVED (DATE: 3/9/76) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
ISBH HAS WITNESSED DUMPING OF PAINT AND OIL WASTE AS LIQUID DISCHARGE TO LANDFILL.

01 G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 1,530 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
WHEN LANDFILL IS FINALLY CLOSED, WATER TABLE WILL RISE TO COVER WASTE AND NORMAL GROUNDWATER FLOW PATTERN WILL BE ESTABLISHED. DISSOLVED TOXIC MATERIAL CAN THEN MOVE OFF SITE.

01 H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____ 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
UNKNOWN

01 I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____ 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
UNKNOWN



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION
01 STATE: IN 02 SITE NUMBER: 0077005914

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				FILED RCRA PART A
<input type="checkbox"/> F. SPCC PLAN				
<input checked="" type="checkbox"/> G. STATE (Specify)	OPP #45-2	2/20/75	3/1/84	
<input checked="" type="checkbox"/> H. LOCAL (Specify)	SW #133	6/19/73		
<input checked="" type="checkbox"/> I. OTHER (Specify)				ISBH PERMISSION ON A NUMBER OF INDUSTRIAL WASTE
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCENERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	06 AREA OF SITE 62 (ACRES)
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input checked="" type="checkbox"/> F. LANDFILL	UNKNOWN		<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input checked="" type="checkbox"/> H. OTHER NONE (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

THIS LANDFILL IS SURROUNDED BY FIVE HAZARDOUS WASTE SITES. VALCAN (METAL DIV.) HAS TWO SURFACE IMPOUNDMENTS ON THE WEST SIDE OF SITE. CITY SERVICE DISTILLATION PLANT HAS DISPOSED OF PETROLEUM BOTTOMS AT A SITE NORTHWEST OF LANDFILL. CONSERVATION CHEM. PLANT POND ARE LOCATED NORTHEAST OF SITE. GRAND CALUMET RIVER (HIGHLY CONTAMINATED) IS LOCATED TO THE SOUTH OF SITE.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
 A. ADEQUATE, SECURE B. MODERATE C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. THIS FORMER SAND PIT WAS CONVERTED TO A LANDFILL BY FIRST DEWATERING THE PIT. THEN THE SIDE WALLS WERE LINED WITH CLAY. THE SOUTH WALL ADJACENT TO GRAND CALUMET RIVER WAS TO HAVE A 10 FOOT BARRIER WALL CONSTRUCTED. INFILTRATION STILL OCCURS FROM SIDE WALLS.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: YES NO SITE IS MONITORED BY 24 HOUR WORKMEN. HOWEVER, TRESPASSERS STILL FIND THEIR WAY ONTO SITE. SITE IS NOT FENCED.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

FIT SITE INSPECTION AND ISBH FILES

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA		I. IDENTIFICATION D1 STATE: <u>IN</u> D2 SITE NUMBER: <u>0077005916</u>		
II. DRINKING WATER SUPPLY				
01 TYPE OF DRINKING SUPPLY <small>(Check as applicable)</small> SURFACE WELL COMMUNITY A. <input checked="" type="checkbox"/> B. <input type="checkbox"/> NON-COMMUNITY C. <input type="checkbox"/> D. <input checked="" type="checkbox"/>		02 STATUS ENDANGERED A. <input type="checkbox"/> AFFECTED B. <input type="checkbox"/> MONITORED C. <input type="checkbox"/> D. <input type="checkbox"/> E. <input type="checkbox"/> F. <input type="checkbox"/>		03 DISTANCE TO SITE A. <u>76</u> (mi) B. <u>ON-SITE</u> (mi)
III. GROUNDWATER				
01 GROUNDWATER USE IN VICINITY <small>(Check one)</small> <input type="checkbox"/> A. ONLY SOURCE FOR DRINKING <input type="checkbox"/> B. DRINKING <small>(Other sources available)</small> <input checked="" type="checkbox"/> C. COMMERCIAL, INDUSTRIAL, IRRIGATION <small>(Limited other sources available)</small> <input type="checkbox"/> D. NOT USED, UNUSEABLE <input type="checkbox"/> COMMERCIAL, INDUSTRIAL, IRRIGATION <small>(No other water sources available)</small>				
02 POPULATION SERVED BY GROUND WATER <u>4,530</u>		03 DISTANCE TO NEAREST DRINKING WATER WELL <u>ON-SITE</u> (mi)		
04 DEPTH TO GROUNDWATER <u>25</u> (ft)	05 DIRECTION OF GROUNDWATER FLOW <u>SOUTHWEST</u>	06 DEPTH TO AQUIFER OF CONCERN <u>25</u> (ft)	07 POTENTIAL YIELD OF AQUIFER <u>UNKNOWN</u> (gpd)	
08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
09 DESCRIPTION OF WELLS <small>(including usage, depth, and location relative to population and buildings)</small> THIS AREA HAS VERY FEW PRIVATE DRINKING WATER WELLS. AREA IS MOSTLY INDUSTRIAL USAGE. THE ON-SITE WELL IS 36SFT. DEEP AND IN AN AQUIFER SEPERATED BY 65FT. OF NATURAL CLAY. WELL IS NOT IN AQUIFER OF CONCERN.				
10 RECHARGE AREA <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO COMMENTS:		11 DISCHARGE AREA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO COMMENTS: THE SRROUNDING GROUNDWATER FLOWS TO SITE AND ITS SUMP.		
IV. SURFACE WATER				
01 SURFACE WATER USE <small>(Check one)</small> <input checked="" type="checkbox"/> A. RESERVOIR, RECREATION DRINKING WATER SOURCE <input type="checkbox"/> B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES <input type="checkbox"/> C. COMMERCIAL, INDUSTRIAL <input type="checkbox"/> D. NOT CURRENTLY USED				
02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER				
NAME:		AFFECTED	DISTANCE TO SITE	
<u>GRAND CALUMET RIVER (RECREATION)</u>		<input checked="" type="checkbox"/>	<u>250 FT.</u> (mi)	
<u>LAKE MICHIGAN (DRINKING WATER)</u>		<input type="checkbox"/>	<u>76</u> (mi)	
		<input type="checkbox"/>		
V. DEMOGRAPHIC AND PROPERTY INFORMATION				
01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION	
ONE (1) MILE OF SITE A. <u>8,000</u> NO. OF PERSONS	TWO (2) MILES OF SITE B. <u>36,000</u> NO. OF PERSONS	THREE (3) MILES OF SITE C. <u>53,000</u> NO. OF PERSONS	<u>7 1/2</u> (mi)	
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE <u>12,000</u>		04 DISTANCE TO NEAREST OFF-SITE BUILDING <u>500 FT.</u>		
05 POPULATION WITHIN VICINITY OF SITE <small>(Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)</small> THE POPULATION WITHIN 3-MILES RADIUS OF SITE IS AN INDUSTRIAL URBAN AREA THAT INCOMPSES GARY, EAST CHICAGO, AND HAMMOND.				

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA		I. IDENTIFICATION 01 STATE: <u>IN</u> 02 SITE NUMBER: <u>D07700591L</u>	
VI. ENVIRONMENTAL INFORMATION			
01 PERMEABILITY OF UNSATURATED ZONE (Check one)			
<input type="checkbox"/> A. $10^{-5} - 10^{-8}$ cm/sec <input type="checkbox"/> B. $10^{-4} - 10^{-6}$ cm/sec <input type="checkbox"/> C. $10^{-4} - 10^{-3}$ cm/sec <input checked="" type="checkbox"/> D. GREATER THAN 10^{-3} cm/sec			
02 PERMEABILITY OF BEDROCK (Check one)			
<input checked="" type="checkbox"/> A. IMPERMEABLE (Less than 10^{-6} cm/sec) <input type="checkbox"/> B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) <input type="checkbox"/> C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) <input type="checkbox"/> D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)			
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
<u>65</u> (ft)	<u>UNKNOWN</u> (ft)	<u>6.0 TO 7.0</u>	
06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE SITE SLOPE	DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE
<u>4</u> (in)	<u>2</u> (in)	<u>30</u> %	<u>ALL SIDES</u> <u>< 3</u> %
09 FLOOD POTENTIAL		10	
SITE IS IN <u>100</u> YEAR FLOODPLAIN		<input checked="" type="checkbox"/> NA <input type="checkbox"/> SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY	
11 DISTANCE TO WETLANDS (5 acre minimum)		12 DISTANCE TO CRITICAL HABITAT (of endangered species)	
ESTUARINE OTHER A. <u>NONE</u> (mi) B. <u>> 1/2</u> (mi)		<u>NONE</u> (mi)	
		ENDANGERED SPECIES: <u>NONE</u>	
13 LAND USE IN VICINITY			
DISTANCE TO:			
COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS PRIME AG LAND	AG LAND
A. <u>500 FEET</u> (ft)	B. <u>< 1/2</u> (mi)	C. <u>NONE</u> (mi)	D. <u>> 6</u> (mi)
14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY			
<p>THIS SITE WAS A 62 ACRE SAND MINE THAT WAS 30 TO 40 FEET DEEP WHEN IT WAS ABANDONED. THE BOTTOM OF THIS PIT IS 65 FT. OF NATURAL CLAY. THE SURROUNDING TOPOGRAPHY IS RELATIVELY FLAT AND HEAVILY FILLED. THE WHOLE SOUTHERN COST OF LAKE MICHIGAN AT ONE TIME WAS FLAT SWAMP LAND, THAT HAS A VERY SANDY TOP SOIL. THE LANDFILL IS DOMED TO THE SOUTH SIDE OF PIT ABOUT 50 FEET ABOVE THE SURROUNDING AREA. THE NORTH END OF PIT IS STILL OPEN. THE GRAND CALUMET RIVER RUNS ALONG THE SOUTH BOUNDARY OF SITE. THE NORTHERN AREA OF INDIANA IS VERY HEAVY INDUSTRY.</p>			
VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)			
<u>FIT SITE INSPECTION AND ISBA FILES</u>			



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE IN 02 SITE NUMBER 0077005916

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	TWO	AQUATECH AND CHEMTECH	6 WEEKS
SURFACE WATER	ONE	" " " "	6 WEEKS
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
NONE	THE WEATHER CONDITIONS WERE TOO COLD AND THE GROUND SURFACE WAS COVERED WITH SNOW.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>U.S. EPA, OFFICE OF SUPERFUND</u> <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>ATTACHED TO COVER MEMO</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NONE

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

FIT SITE INSPECTION



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
IN 0077005916

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME GARY DEVELOPMENT, INC.		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 479 N. CLINE AVE.			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE
05 CITY GARY		06 STATE IN	07 ZIP CODE 46406	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (if applicable; list most recent first)			
01 NAME NONE		02 D+B NUMBER		01 NAME ROCK ROAD CONSTRUCTION Co.		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.) 5915 N. ROGERS AVE.			04 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	05 CITY CHICAGO		06 STATE IL	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
ISBH FILES



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0077005914

II. CURRENT OPERATOR <i>(Provide if different from owner)</i>				OPERATOR'S PARENT COMPANY <i>(if applicable)</i>			
01 NAME GARY DEVELOPMENT, INC		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 479 N. CLINE AVE.			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE
05 CITY GARY		06 STATE IN	07 ZIP CODE 46406		14 CITY		15 STATE
08 YEARS OF OPERATION		09 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) <i>(List most recent first; provide only if different from owner)</i>				PREVIOUS OPERATORS' PARENT COMPANIES <i>(if applicable)</i>			
01 NAME NONE		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE		14 CITY		15 STATE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE		14 CITY		15 STATE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE		14 CITY		15 STATE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION <i>(Cite specific references, e.g., state files, sample analysis, reports)</i>							
LAWRENCE HAGEN							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0077005916

II. ON-SITE GENERATOR

01 NAME <i>NONE</i>		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	

III. OFF-SITE GENERATOR(S) *SEE ATTACHED LIST*

01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

IV. TRANSPORTER(S) *SEE ATTACHED LIST*

01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

ISBA FILES

EPA		POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES		I. IDENTIFICATION	
		01 STATE	02 SITE NUMBER	IN 0077005916	
II. PAST RESPONSE ACTIVITIES					
01 <input type="checkbox"/>	A. WATER SUPPLY CLOSED	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input type="checkbox"/>	B. TEMPORARY WATER SUPPLY PROVIDED	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input type="checkbox"/>	C. PERMANENT WATER SUPPLY PROVIDED	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input type="checkbox"/>	D. SPILLED MATERIAL REMOVED	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input type="checkbox"/>	E. CONTAMINATED SOIL REMOVED	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input type="checkbox"/>	F. WASTE REPACKAGED	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input type="checkbox"/>	G. WASTE DISPOSED ELSEWHERE	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input checked="" type="checkbox"/>	H. ON SITE BURIAL	02 DATE	SEE FILE	03 AGENCY	TSBH
04 DESCRIPTION	ISBH GRANTED SPECIAL APPROVAL TO SITE OPERATOR TO BURY A NUMBER OF INDUSTRIAL (HAZARDOUS) WASTES.				
01 <input type="checkbox"/>	I. IN SITU CHEMICAL TREATMENT	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input type="checkbox"/>	J. IN SITU BIOLOGICAL TREATMENT	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input type="checkbox"/>	K. IN SITU PHYSICAL TREATMENT	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input type="checkbox"/>	L. ENCAPSULATION	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input type="checkbox"/>	M. EMERGENCY WASTE TREATMENT	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input checked="" type="checkbox"/>	N. CUTOFF WALLS	02 DATE	1973	03 AGENCY	TSBH
04 DESCRIPTION	SEE CONSTRUCTION PERMIT AND FILE				
01 <input checked="" type="checkbox"/>	O. EMERGENCY DIKING/SURFACE WATER DIVERSION	02 DATE	1983	03 AGENCY	TSBH
04 DESCRIPTION	EXTENSION TO 1973 CONSTRUCTION PERMIT				
01 <input type="checkbox"/>	P. CUTOFF TRENCHES/SUMP	02 DATE		03 AGENCY	
04 DESCRIPTION	NA				
01 <input checked="" type="checkbox"/>	Q. SUBSURFACE CUTOFF WALL	02 DATE	1973	03 AGENCY	TSBH
04 DESCRIPTION	SEE CONSTRUCTION PERMIT AND FILE				



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
IN 0077005916

II PAST RESPONSE ACTIVITIES (Continued)

01 <input type="checkbox"/> R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input checked="" type="checkbox"/> S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY
CONSENT DECREE BETWEEN ISBH AND OPERATOR	1983	ISBH
01 <input type="checkbox"/> T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
NA		

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

ISBH FILES



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IN 007700594

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION YES NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

1983 CONSENT DECREE

III. SOURCES OF INFORMATION (the specific references, e.g., state files, sample analysis, reports)

ISBH FILES

these improper practices were observed, the potential environmental problems associated with said practices, and produce all documents relating to this Interrogatory.

44. GDL received permission to accept the following listed wastes:

<u>Waste Type</u>	<u>Permission Letter Date</u>	<u>Amount Allowed</u>
API Separator Bottoms	6/3/77	200 cubic yards
Paint Sludges	4/12/76	25 cubic yards
Solid Corn Starch	2/20/76	Unspecified
Carbon Filters from Corn Syrup Filtering Processes	2/20/76	Unspecified
Lime Sludges	6/1/77	80,000 gallons per month or 4,000 gallons per day
Lime Waste	3/14/77	80,000 gallons per month
Calcium Carbonate	10/4/76	30 cubic yards per day
Lime Sludge	1/30/76	1,500 to 5,000 gallons per week
Activated Biological Sludge	4/25/77	Unspecified
Calcium Sulfate	3/14/77	1.5 tons per day
Gypsum Wastes (no Cd or Pb)	10/7/76	Unspecified

<u>Date</u>	<u>Waste Type</u>	<u>Waste Quantity</u>
1/30/76	Lime Slurry	1,500 to 5,000 gallons per week
6/18/75	Neutralized Sludges	Temporary Approval
2/24/75	Dripolene	4 to 5 truckloads per week for 6 months

(a) Are the Special Permission Letters outlined above the only such letters issued by the State granting permission to any person or company to dispose of hazardous or special wastes at GDL? If not, list all other such letters and their date; specify the type of waste involved; identify whether such waste is an industrial waste, a RCRA hazardous waste, or both; and produce copies of such letters and all documents relating thereto.

<u>Date</u>	<u>Waste Type</u>	<u>Waste Quantity</u>
1/9/81	Asbestos	50 cubic yards (one-time-only basis)
12/17/80	Pipe Insulating Asbestos Waste	300 cubic yards (one-time-only basis)
12/9/80	Metal Shavings	25 cubic yards per year
10/30/80	Asbestos Contaminated Material	700 cubic yards (one-time-only basis)
8/25/80	Asbestos	100 cubic yards (one-time-only basis)
5/14/80	Asbestos	40 cubic yards per week for four weeks; 20 cubic yards every other week thereafter
5/13/80	Fly Ash	15,000 cubic yards
11/27/79	Aluminum Dross (Milling Dust and Slag)	300 tons per day until June 15, 1980
3/20/79	Furnace Brick, Pallets	Unspecified
4/28/78	Water and Vegetable Oil	4,000 gallons (one-time-only basis)
11/18/77	Herbicide	120 cubic yards (one-time-only basis)
9/6/77	Oily Waste From 6-Stand Oil Recovery Unit	1,200 gallons per day
7/22/77	Filter Cake Kiln Scrubber Mud	1,500 pounds per week 3,000 pounds per week
6/3/77	API Separator Bottoms	200 cubic yards per year
6/1/77	Lime Sludge	80,000 gallons per month (not more than 4,000 gallons per day)
5/17/77	Asbestos Paper	105 cubic yards per week
5/12/77	Filter Cake Scrubber Mud	1,500 pounds per week 3,000 pounds per week (Temporary Approval)
4/25/77	Activated Biological Sludge	Unspecified
3/14/77	Calcium Sulfate	1.5 tons per day
3/14/77	Lime Waste	80,000 gallons per month
3/4/77	Youngstown Oil Sludge	Unspecified
10/7/76	Gypsum Wastes (ph 7.9)	Quantity Unspecified
10/4/76	Calcium Carbonate	30 cubic yards per day
4/12/76	Paint Sludges	25 cubic yards per day
2/20/76	Corn Starch and Carbon Filters	Unspecified

ATTACHMENT I
GENERATORS

Jones and Laughlin Steel Company, East Chicago
Union Carbide, East Chicago
American Maize Products Company
American Chemical Service
E. I. DuPont
U. S. Reduction
Youngstown Sheet and Tube, East Chicago
U. S. Steel
Calumet Waste Systems
Vulcan Materials Company Company, Gary
Energy Cooperative, Inc., East Chicago
Industrial Rubbish Removal
U. S. S. Lead Refinery, Inc.
C. F. Petroleum
Lever Brothers Company
Conservation Chemical Company
Industrial Disposal
General Drainage
Calumet Wastes, Inc.
Independent Waste
City of Hammond
Amoco Oil Company, Whiting
Standard Steel Speciality Company, Hammond
Cities Services Refinery, Gary
Former Ashland Chemical Plant, Hammond
Borg - Warner, Bellwood, Illinois
Georgia Pacific
Shell Oil Refinery
Brandenberg Demolition

ATTACHMENT I
TRANSPORTERS

Indiana Waste Systems, Inc.

City of Hammond

Industrial Disposal Corporation, East Chicago

Calumet Wastes, Inc., Hammond

Independt Wastes

General Drainage

Lender Industries

Liquid Dynamics

Correct Maintenance

EPA Notification of Hazardous Waste Site

United States Environmental Protection Agency Washington DC 20460

This initial notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and must be mailed by June 9, 1981.

Please type or print in ink. If you need additional space, use separate sheets of paper. Indicate the letter of the item which applies.

IN-8

IN# 218

810609

INS-000-001-090

A Person Required to Notify:

Enter the name and address of the person or organization required to notify.

Name INDIANA WASTE SYSTEMS, INC.
Street P.O. Box 250
City Valparaiso State IN Zip Code 46368

B Site Location:

Enter the common name (if known) and actual location of the site.

Name of Site GARY DEVELOPMENT LANDELL *
Street 479 N. Cline Ave.
City Gary County Lake State IN Zip Code 46406

IND 077005916

C Person to Contact:

Enter the name, title (if applicable), and business telephone number of the person to contact regarding information submitted on this form.

Name (Last, First and Title) Diver, Jeffrey - Envir. Counsel
Phone 312/654-8800

D Dates of Waste Handling:

Enter the years that you estimate waste treatment, storage, or disposal began and ended at the site.

From (Year) 1972 To (Year) PRESENT 1981

E Waste Type: Choose the option you prefer to complete

Option 1: Select general waste types and source categories. If you do not know the general waste types or sources, you are encouraged to describe the site in Item I—Description of Site.

General Type of Waste: Place an X in the appropriate boxes. The categories listed overlap. Check each applicable category.

- 1. Organics
- 2. Inorganics
- 3. Solvents
- 4. Pesticides
- 5. Heavy metals
- 6. Acids
- 7. Bases
- 8. PCBs
- 9. Mixed Municipal Waste
- 10. Unknown
- 11. Other (Specify)
INCINERATOR RESIDUES
OIL SLUDGE

Source of Waste: Place an X in the appropriate boxes.

- 1. Mining
- 2. Construction
- 3. Textiles
- 4. Fertilizer
- 5. Paper/Printing
- 6. Leather Tanning
- 7. Iron/Steel Foundry
- 8. Chemical, General
- 9. Plating/Polishing
- 10. Military/Ammunition
- 11. Electrical Conductors
- 12. Transformers
- 13. Utility Companies
- 14. Sanitary/Refuse
- 15. Photofinish
- 16. Lab/Hospital
- 17. Unknown
- 18. Other (Specify)
REFINERY

Option 2: This option is available to persons familiar with the Resource Conservation and Recovery Act (RCRA) Section 3001 regulations (40 CFR Part 261).

Specific Type of Waste: EPA has assigned a four-digit number to each hazardous waste listed in the regulations under Section 3001 of RCRA. Enter the appropriate four-digit number in the boxes provided. A copy of the list of hazardous wastes and codes can be obtained by contacting the EPA Region serving the State in which the site is located.

* SITE OWNER/OPERATOR ASSERTS THIS FACILITY IS ON INTERIM STATUS. USEPA, REGION IX, PERSONNEL HAVE ADVISED US, HOWEVER, THAT SITE DOES NOT HAVE INTERIM STATUS, ALTHOUGH A PART "A" APPLICATION WAS FILED.

000370 JUN -981

JUN 12 1981

Notification of Hazardous Waste Site

Side Two

<p>F Waste Quantity: Place an X in the appropriate boxes to indicate the facility types found at the site. In the "total facility waste amount" space give the estimated combined quantity (volume) of hazardous wastes at the site using cubic feet or gallons. In the "total facility area" space, give the estimated area size which the facilities occupy using square feet or acres.</p>	<p>Facility Type</p> <ol style="list-style-type: none"> 1. <input type="checkbox"/> Piles 2. <input type="checkbox"/> Land Treatment 3. <input checked="" type="checkbox"/> Landfill 4. <input type="checkbox"/> Tanks 5. <input type="checkbox"/> Impoundment 6. <input type="checkbox"/> Underground Injection 7. <input type="checkbox"/> Drums, Above Ground 8. <input checked="" type="checkbox"/> Drums, Below Ground 9. <input type="checkbox"/> Other (Specify) 	<p>Total Facility Waste Amount</p> <p>cubic feet <u>UNKNOWN</u></p> <p>gallons _____</p> <p>Total Facility Area</p> <p>square feet _____</p> <p>acres <u>80</u> A</p>
--	---	--

G Known, Suspected or Likely Releases to the Environment:
Place an X in the appropriate boxes to indicate any known, suspected, or likely releases of wastes to the environment.

Known Suspected Likely None

Note: Items Hand I are optional. Completing these items will assist EPA and State and local governments in locating and assessing hazardous waste sites. Although completing the items is not required, you are encouraged to do so.

H Sketch Map of Site Location: (Optional)

Sketch a map showing streets, highways, routes or other prominent landmarks near the site. Place an X on the map to indicate the site location. Draw an arrow showing the direction north. You may substitute a publishing map showing the site location.

I Description of Site: (Optional)

Describe the history and present conditions of the site. Give directions to the site and describe any nearby wells, springs, lakes, or housing. Include such information as how waste was disposed and where the waste came from. Provide any other information or comments which may help describe the site conditions.

Environmental Counsel has prepared this form, based upon composite information provided in written and oral responses from employees of the reporting company,

much of which may have been founded in hearsay, rumor, speculation and imperfect recollection of past events. No admission or representation is therefore made that any of the wastes handled by this company, or generically reported on this form, would actually meet a listed description or characteristic of "hazardous waste" at 50 CFR, Part 261. Where a "facility waste amount" is indicated, it is, in most cases, a very crude estimation of "potentially hazardous waste," as in most cases, no records of waste types or quantities were available. If the reporting company is a "transporter," no representation is made that the company selected the reported site, nor that all of the waste types indicated were actually transported by the reporting company.

J Signature and Title:

The person or authorized representative (such as plant managers, superintendents, trustees or attorneys) of persons required to notify must sign the form and provide a mailing address (if different than address in item A). For other persons providing notification, the signature is optional. Check the boxes which best describe the relationship to the site of the person required to notify. If you are not required to notify check "Other".

Name W. Brand Bobosky, Asst. Secretary

Street 900 Jorie Boulevard

City Oak Brook State IL Zip Code 60521

Signature W. Brand Bobosky Date 6/9/81

- Owner, Present
- Owner, Past
- Transporter
- Operator, Present
- Operator, Past
- Other

EPA Notification of Hazardous Waste Site

United States
Environmental Protection
Agency
Washington DC 20460

This initial notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and must be mailed by June 9, 1981.

Please type or print in ink. If you need additional space, use separate sheets of paper. Indicate the letter of the item which applies.

IN #37 INS-000-001-092

A Person Required to Notify:

Enter the name and address of the person or organization required to notify.

Name GARY DEVELOPMENT LAWRENCE HAGEN
Street P.O. Box 6056
City GARY State IND Zip Code 46406

B Site Location: IND077005916

Enter the common name (if known) and actual location of the site.

IND. EPA
Permit 45-2

Name of Site GARY DEVELOPMENT Co. INC
Street CLINE AND GARY AVE. EAST OF CLINE N. OF RIVER
City GARY County LAKE State IND Zip Code 46406

C Person to Contact:

Enter the name, title (if applicable), and business telephone number of the person to contact regarding information submitted on this form.

Name (Last, First and Title) HAGEN, LAWRENCE V.P. Gen. MGR.
Phone 219-944-7858

D Dates of Waste Handling:

Enter the years that you estimate waste treatment, storage, or disposal began and ended at the site.

From (Year) 1976 To (Year) 1981

E Waste Type: Choose the option you prefer to complete

Option 1: Select general waste types and source categories. If you do not know the general waste types or sources, you are encouraged to describe the site in Item I—Description of Site.

General Type of Waste:
Place an X in the appropriate boxes. The categories listed overlap. Check each applicable category.

- 1. Organics
- 2. Inorganics
- 3. Solvents
- 4. Pesticides
- 5. Heavy metals
- 6. Acids
- 7. Bases
- 8. PCBs
- 9. Mixed Municipal Waste
- 10. Unknown
- 11. Other (Specify)

Source of Waste:
Place an X in the appropriate boxes.

- 1. Mining
- 2. Construction
- 3. Textiles
- 4. Fertilizer
- 5. Paper/Printing
- 6. Leather Tanning
- 7. Iron/Steel Foundry
- 8. Chemical, General
- 9. Plating/Polishing
- 10. Military/Ammunition
- 11. Electrical Conductors
- 12. Transformers
- 13. Utility Companies
- 14. Sanitary/Refuse
- 15. Photofinish
- 16. Lab/Hospital
- 17. Unknown
- 18. Other (Specify)

Option 2: This option is available to persons familiar with the Resource Conservation and Recovery Act (RCRA) Section 3001 regulations (40 CFR Part 261).

Specific Type of Waste:
EPA has assigned a four-digit number to each hazardous waste listed in the regulations under Section 3001 of RCRA. Enter the appropriate four-digit number in the boxes provided. A copy of the list of hazardous wastes and codes can be obtained by contacting the EPA Region serving the State in which the site is located.

F 006		
K 087		

000040 JUN-581

JUN 05 1981

Notification of Hazardous Waste Site

Side Two

F Waste Quantity:

Place an X in the appropriate boxes to indicate the facility types found at the site.

In the "total facility waste amount" space give the estimated combined quantity (volume) of hazardous wastes at the site using cubic feet or gallons.

In the "total facility area" space, give the estimated area size which the facilities occupy using square feet or acres.

Facility Type

1. Piles
2. Land Treatment
3. Landfill
4. Tanks
5. Impoundment
6. Underground Injection
7. Drums, Above Ground
8. Drums, Below Ground
9. Other (Specify)

Total Facility Waste Amount.

Cubic feet 97,680 cu. yds

gallons _____

Total Facility Area

square feet _____

acres 62 ACRES

G Known, Suspected or Likely Releases to the Environment:

Place an X in the appropriate boxes to indicate any known, suspected, or likely releases of wastes to the environment.

Known Suspected Likely None

Note: Items H and I are optional. Completing these items will assist EPA and State and local governments in locating and assessing hazardous waste sites. Although completing the items is not required, you are encouraged to do so.

H Sketch Map of Site Location: (Optional)

Sketch a map showing streets, highways, routes or other prominent landmarks near the site. Place an X on the map to indicate the site location. Draw an arrow showing the direction north. You may substitute a publishing map showing the site location.

I Description of Site: (Optional)

Describe the history and present conditions of the site. Give directions to the site and describe any nearby wells, springs, lakes, or housing. Include such information as how waste was disposed and where the waste came from. Provide any other information or comments which may help describe the site conditions.

J Signature and Title:

The person or authorized representative (such as plant managers, superintendents, trustees or attorneys) of persons required to notify must sign the form and provide a mailing address (if different than address in item A). For other persons providing notification, the signature is optional. Check the boxes which best describe the relationship to the site of the person required to notify. If you are not required to notify check "Other".

Name GARY DEVELOPMENT, LAWRENCE HOGAN

Street P.O. Box 6056

City GARY

State IND Zip Code 46406

Signature Lawrence H. Hogan

Date 6-4-81

- Owner, Present
- Owner, Past
- Transporter
- Operator, Present
- Operator, Past
- Other

USEPA # IND. 077005916

Permit # IND 45

ATTACHMENT I
GENERATORS

Jones and Laughlin Steel Company, East Chicago
Union Carbide, East Chicago
American Maize Products Company
American Chemical Service
E. I. DuPont
U. S. Reduction
Youngstown Sheet and Tube, East Chicago
U. S. Steel
Calumet Waste Systems
Vulcan Materials Company Company, Gary
Energy Cooperative, Inc., East Chicago
Industrial Rubbish Removal
U. S. S. Lead Refinery, Inc.
C. F. Petroleum
Lever Brothers Company
Conservation Chemical Company
Industrial Disposal
General Drainage
Calumet Wastes, Inc.
Independent Waste
City of Hammond
Amoco Oil Company, Whiting
Standard Steel Speciality Company, Hammond
Cities Services Refinery, Gary
Former Ashland Chemical Plant, Hammond
Borg - Warner, Bellwood, Illinois
Georgia Pacific
Shell Oil Refinery
Brandenberg Demolition

12/27/83

ecology and environment, inc.

223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415

International Specialists in the Environmental Sciences

DATE: June 29, 1983

TO: File/USEPA Region V

FROM: Kathy McCormack/Claude Mays/Mark Lunsford - EPA

SUBJECT: Preliminary Assessment

Indiana/TDD#R5-8212-02A-085
Gary/Gary Development Landfill
IND077005916

Attached is EPA's Preliminary Assessment Form 2070-12 for the above referenced site.

Primary information was gathered from the following source(s):

1. Indiana State Board of Health, Indianapolis

2.

3.

Information indicates the following responsible parties should be listed. They are listed here because of space limitations:

1. *SEE ATTACHMENT I FOR GENERATORS/TRANSPORTERS*

2. Jeffrey Diver, Environmental Counsel, Gary Land Development

3. William M. Nanini, Gary Land Development

Presently, data gaps or no verification exists in the following key area(s):

1.

2.

3.

A review of the available data indicates that additional information will be necessary to assess the impact(s) on:

1. Drinking water

2. Surface water of Grand Calumet River

3.

4.

5.

Suggested methods/sources for obtaining additional information are:

1. Interview: Bruce Palin, George Oliver, Stu Miller, Div. of Land Pollution Control, ISBH.

2. Test for priority pollutants - outfall, monitoring

3. wells and Grand Calumet River.

Notice of an apparent need for emergency action was transmitted to N/A

on N/A

by N/A

ATTACHMENT I
TRANSPORTERS

Indiana Waste Systems, Inc.
City of Hammond
Industrial Disposal Corporation, East Chicago
Calumet Wastes, Inc., Hammond
Independt Wastes
General Drainage
Lender Industries
Liquid Dynamics
Correct Maintenance

GARY LAND DEVELOPMENT LANDFILL

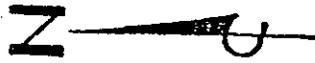
LAKE COUNTY

LEGEND

● GROUNDWATER MONITORING WELL LOCATIONS

↓ DISCHARGE PIPE (EFFLUENT)

/// LANDFILL SITE



GARY
MUNICIPAL
AIRPORT

